

RATNER, A.P. [deceased]; GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Solubility of the salt $\text{Na}_4\text{UO}_8 \cdot 9 \text{H}_2\text{O}$ in water and solutions of
various electrolytes. Trudy Radiev.inst.AN SSSR. 8:77-85 '58.
(MIRA 12:2)

(Sodium peroxyuranate)

GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Study of products of hydrolysis and thermal decomposition of
 $\text{Na}_4\text{UO}_8 \cdot 9\text{H}_2\text{O}$ salt in water and aqueous solutions. Trudy Radiev.
inst. AN SSSR. 8:86-98 '58. (MIRA 12:2)
(Sodium peroxyuranate) (Hydrolysis) (Dissociation)

GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Solid phase in the system $\text{UO}_2(\text{NO}_3)_2 - \text{K}_2\text{CO}_3 - \text{H}_2\text{O}_2 - \text{H}_2\text{O}$.
Radiokhimiia 5 no.5:592-602 '63. (MIRA 1713)

GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Study of the solid phase in the system $\text{UO}_2(\text{NO}_3)_2 - \text{ROH} - \text{H}_2\text{O}_2 - \text{H}_2\text{O}$.
Radiokhimiia 1 no.5:567-572 '59. (MIRA 13:2)
(Systems (Chemistry))

GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Study of the solid phase in the system $UO_2 \cdot 4H_2O - ROH - H_2O_2 - H_2O$.
Radiokhimiia 1 no.5:573-580 '59. (MIRA 13:2)
(Systems (Chemistry))

POLOZHENSKAYA, L. P., Cand Chem Sci (diss) -- "Investigation of the solid phase
in systems of $\text{UO}_2(\text{NO}_3)_2$ - $\text{ROH}-\text{H}_2\text{O}_2-\text{H}_2\text{O}$, $\text{UO}_4\cdot\text{H}_2\text{O}-\text{ROH}-\text{H}_2\text{O}_2-\text{H}_2\text{O}$ ". Leningrad,
1960. 14 pp (Radium Inst V. G. Khlopov of the Acad Sci USSR), 250 copies
(KL, No 14, 1960, 128)

5. 2200(A)

68116

SOV/78-5-1-28/45

5(2)

AUTHORS:

Gurevich, A. M., Polozhenskaya, L. P.

TITLE:

Investigation of the Interaction of the Solid Phase $UO_4 \cdot 4H_2O$ With Solutions of Sodium- and Potassium Hydroxide

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 1, pp 175-179 (USSR)

ABSTRACT:

In this article the authors studied the composition of the compounds of $UO_4 \cdot xH_2O$ with alkalies formed at different pH. The results of analysis of UO_4 hydrates obtained by precipitation at room temperature and 90° are listed in table 1. It followed that the precipitation temperature has an effect on the thermal stability of $UO_4 \cdot 4H_2O$. The hydrate precipitated at 90° is converted into $UO_4 \cdot 2H_2O$ at 98° without hydrogen loss, whereas the hydrate precipitated at room temperature loses its peroxide oxygen under equal conditions. It results from tables 2 and 3 that slightly soluble compounds, $R_2U_2O_9 \cdot xH_2O$ (with pH = 8)

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and $R_2U_2O_9 \cdot xH_2O$ (with pH = 14), are formed in the system

68116

SOV/78-5-1-28/45

Investigation of the Interaction of the Solid Phase $\text{UO}_4 \cdot 4\text{H}_2\text{O}$ With Solutions of Sodium- and Potassium Hydroxide

$\text{UO}_4 \cdot 4\text{H}_2\text{O} - \text{ROH} - \text{H}_2\text{O}$ ($\text{R} = \text{Na}, \text{K}$), irrespective of the alkali-metal type. These compounds are stable at room temperature, and at 100° they lose their peroxide oxygen and are converted into uranates. The X-ray pictures of these compounds are illustrated in figure 1. Highly concentrated alkalis act differently depending on their type. The difficultly soluble salt $\text{K}_2\text{UO}_5 \cdot 4\text{H}_2\text{O}$ is obtained from $\text{UO}_4 \cdot 4\text{H}_2\text{O}$ by means of 13.0 n KOH. NaOH, however, dissolves $\text{UO}_4 \cdot 4\text{H}_2\text{O}$. The analysis of these solutions is given in table 4. The absorption spectra (Fig 2) of the anions of these solutions greatly differ from the absorption spectrum of UO_4^{4-} . These anions contain one peroxide group per U atom. The acid character of $\text{UO}_4 \cdot 4\text{H}_2\text{O}$ is proven by the results of this investigation. The authors thank V. V. Kurbatov for X-ray analysis of the salts. There are 2 figures, 4 tables, and 8 references, 2 of which are Soviet.

Card 2/3

S/186/61/003/003/011/018
E071/E435

21.3100

AUTHORS: Gurevich, A.M. and Polozhenskaya, L.P.

TITLE: An Investigation of the Solubility of Peroxo-Complexes
of the Uranyl Ion: $K_4[UO_2(O_2)_3] \cdot 5H_2O$ and
 $K_4[UO_2(O_2)_3] \cdot 4H_2O_2 \cdot 4H_2O$

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.3, pp.316-320

TEXT: Views on the complex nature of peroxide compounds of uranium and corresponding formulae and nomenclature of these compounds were described in previous papers of the authors and their teams (Ref.1: A.M.Gurevich and L.P.Polozhenskaya, Radiokhimiya, 1, 5, 573 (1959); Ref.2: A.M.Gurevich, L.D.Preobrazhenskaya, Ye.V.Komarov and N.P.Osicheva, Radiokhimiya, 2, 1, 32 (1960)). In the present paper the results of an investigation on the solubility of potassium triperoxouranyl $K_4[UO_2(O_2)_3] \cdot xH_2O$ in water and potassium oxide solutions as well as on the solubility of the compound $K_4[UO_2(O_2)_3] \cdot 4H_2O_2 \cdot 4H_2O$ which, in addition to truly bound water, contains hydrogen peroxide of crystallization. The experimental procedure was described in other work (Ref.3: A.P.Fatner, A.M.Gurevich, L.P.Polozhenskaya, ZhNKh, 2, 10, 2316 (1957)). The experimental results obtained, Card 1/2

POLOZHENSKAYA, L.P.
RATNER, A.P. [deceased]; GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Solubility of the salt $\text{Na}_2\text{UO}_8 \cdot 9\text{H}_2\text{O}$ in water and solutions of
different electrolytes. Zhur. neorg. khim. 2 10:2316-2322
O '57. (Sodium uranate) (Solubility) (MIRA 11:3)

POLOZHENSKAYA, L.P.

Studying the decomposition products of the salt $\text{Na}_4\text{UO}_8 \cdot 9\text{H}_2\text{O}$.
Zhur. neorg. khim. 2 10:2323-2326 0 '57. (MIRA 11:3)
(Sodium uranate)

POLOZHENTSEV, D., mladskiy serzhant sverkhstrochnoy sluzhby

Little house on runners. Starsh.-serzh. no.2:29 F '61. (MIRA 14:7)
(Airplanes, Military--Maintenance and repair)

SYTINSKAYA, N.; SUSLOV, A.; SHPAGINA, T.; ORLOVA, N.S.; POLOZHENTSEV, D.D.

Preliminary results of observations of the total solar eclipse of February 25, 1952, carried out by the expedition of the Leningrad University. Astron. tsir. no.136:10-13 Mr '53. (MLBA 6:6)

1. Leningradskiy universitet.

(Eclipses, Solar--1952)

POLOZHEV, D. D.

"Construction of a Fundamental Declination System by the Method of V. G. Shaposhnikov."
Main Astronomical Observatory of the Acad. Sci. USSR, Leningrad, 1955. (Dissertation
for the Degree of Candidate of Physical and Mathematical Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

POLOZHENTSEV, D.D.

Changes in the brightness of sky and landscape during the total
phase of the solar eclipse of February 25, 1952. Uch.zap.LGU
no.190:120-125 '57. (MIRA 10:7)
(Eclipses, Solar--1952)

6.078

SOV/35-59-10-8255

3.000
Translation from: Referativnyy zhurnal. Astronomiya i Geodeziya, 1959, Nr 10, p 88
(USSR)

AUTHOR: Polozhentsev, D.D.

TITLE: A Simple Method of Quickly Determining the Approximate Coordinates of
Artificial Earth Satellites From Photographs Taken by the NAFA 3S/25 Camera

PERIODICAL: Astron. tsirkulyar, 1958, May 8, Nr 191, pp 5-6

ABSTRACT: For a quick determination of the coordinates of the artificial earth satellite (AES) a method is proposed based on the fact that the scales of the negatives taken by the NAFA camera, and the charts of the stellar sky used for visual observations of the AES, practically coincide. The method is based on superposing the chart on the film according to the stars. From the chart the coordinates of the AES are calculated with an accuracy of up to 1^m along α and up to $0^{\circ}.1$ along δ . The determination of the accuracy of this method is carried out by four methods. The accuracy limit of the method is $\pm 0^{\circ}.04$. The complete processing of observations by this approximate method does not exceed 4 hours.

G.V.Z. ✓

Card 1/1

BATURINA, G.D.; IVANOVA, V.A.; POLOZHENTSEV, D.D. (Pulkovo)

Tables of $\sec \delta$ and $\tg \delta$ for 23,500 stars of the AGK 3R and of the
catalog of faint stars with declinations from -20° to $+80^\circ$. .. Astron.
tsir. no.204:22 S '59. (MIRA 13:6)
(Stars--Catalogs)

POLOZHENTSEV, D.D.

PHASE I BOOK EXPLOITATION

SOV/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.
(Transactions of the 14th Astrometrical Conference of the USSR, Held in Kiyev
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astrometrical
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/16

Transactions of the 14th Astrometrical (Cont.)	SOV/5721
Scientific Research Work of the Department of Astronomy at the Moscow Institute for Engineers of Geodesy, Aerial Photography, and Cartography (A. N. Kuznetsov)	90
Development of Astrometry in China (Chang Yü-Che)	93
Works on Latitude and Longitude at the Astronomical Station of the Polish Academy of Sciences in Borowiec (J. Witkowski)	95
Discussions of Reports	103

SCIENTIFIC REPORTS AND PAPERS

Everev, M. S., and D. D. Polozhentsev. Study of the System of the Preliminary Composite Catalogue of Fundamental Faint Stars	107
Gulyayev, A. P. Study of the System of Right Ascensions of FK3 Stars in the Circumpolar Region According to Observations on the Moscow Meridian Circle	116
Card 7/16	

3/035/61/000/004/017/058
A001/A101

3,1900

AUTHORS: Vasil'yev, V. M., and Polozhentsev, D. D.

TITLE: On application of analytical computers to calculations of time service at the GAO (Main Astronomical Observatory) ✓B

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 17, abstract 4A210 ("Tr. 14-y Astronetr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 328-331, Engl. summary)

TEXT: This is a report on the calculation procedure of clock corrections by means of analytical computers, which was developed and successfully applied in the computing laboratory of the Pulkovo Observatory. It takes about 25 minutes to compute clock correction from the results of observations of 20 stars, using commutation boards mounted in advance.

G. T.

[Abstracter's note: Complete translation]

Card 1/1

84579

S/006/60/000/010/001/008
B012/B054

3,1410

AUTHOR:

Polozhentsev, D. D.

TITLE:

New Working Ephemerides of the Tal'kott Method for the
Latitudes From $+30^{\circ}$ to $+65^{\circ}$

PERIODICAL: Geodeziya i kartografiya, 1960, No. 10, pp. 15 - 18

TEXT: The "program" of B. Numerov or the "working ephemerides" of A. V. Teologov are used to determine the latitudes at the Laplacian points by the Tal'kott method. The "program" does not contain a sufficient number of pairs, especially for north latitudes, is inconvenient since there are no working ephemerides, and the only edition of this "program" is a bibliographic rarity. The program of Teologov does not show these shortcomings but is only intended for north latitudes ($\varphi=65-78^{\circ}$). The Chinese and the Finnish programs for the Tal'kott method do not meet, for various reasons, the demands of Soviet astronomers and surveyors either. Table 1 gives the main characteristics of all these programs, as well as those of the new working ephemerides. The new program for the Tal'kott method is described. It was compiled at the Pulkovskaya observatoriya (Pulkovo)

Card 1/3

84579

New Working Ephemerides of the Tal'kott
Method for the Latitudes From $+30^{\circ}$ to $+65^{\circ}$

S/006/60/000/010/001/008
B012/B054

Observatory) with the aid of computers and by a method developed by the author (Ref., footnote on p. 15). The working ephemerides for the new program were worked out at the same time. The program and the ephemerides were compiled for the 1980.0 epoch. The pairs were selected from the catalog of geodetic stars compiled by N. V. Tsimmerman; stars brighter than star magnitude 6.55 were included. Fig. 2 shows the distribution of the program pairs according to latitude zones and right ascensions. It shows that the distribution of pairs in the program is irregular. The number of pairs decreases toward north because in the northern zones of the star catalog there are much fewer stars than in the southern ones. The irregular distribution of pairs according to right ascensions is caused by the galactic concentration of stars in the sky. The working ephemerides contain all data necessary for observations. They allow observations "at sight" without any preparation. Table 3 shows an example of ephemerides. As the ephemerides were determined on computers, the data of each pair were marked on punched cards after the computation. The further assortment of these cards can be made in any order. The variant used here is described. At the end of the ephemerides, there is a list of the star numbers according to the catalog of geodetic stars, the catalog

Card 2/3

POLOZHENTSEV, D.D.

Compiling a program for the Talcott method by means of punched
card machines. Izv. GAO 22 no. 1:135-137 '60. (MIRA 13:12)
(Astronomy, Spherical and practical)
(Punched card systems)

S/035/62/000/008/013/090
A001/A101

AUTHORS: Polozhentsev, D. D., Sakharov, V. I.

TITLE: On efficiency of using modern computers for processing and analysis of latitude observations

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 18, abstract 8A147 (In collection: "Predvarit. rezul'taty issled. kolebaniy shirot i dvizheniya polyusov Zemli, no. 2", Moscow, AN SSSR, 1961, 130 - 131, English summary)

TEXT: It is intended at Pulkovo to analyze observational data assembled during IGY (about 14,000 instantaneous latitudes) from two zenith telescopes, 3TΦ -135 (ZTF-135) and 3TJ -180 (ZTL-180) by using analytical and electronic computers. ✓

[Abstracter's note: Complete translation]

Card 1/1

S/035/62/000/008/016/090
A001/A101

3.14/10

AUTHORS: Kreytin, Ye. I., Polozhentsev, D. D., Terent'yev, N. M.

TITLE: On calculating visible positions of stars for the Soviet Latitude Service by means of analytical electronic computers

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 20, abstract 8A155 (In collection: "Predvarit. rezul'taty issled. kolebaniy shirot i dvizheniya polyusov Zemli, no. 2", Moscow, AN SSSR, 1961, 132 - 136; English summary)

TEXT: The authors describe the methods of calculating ephemeris of visible declinations for the stars of the latitude program of the Pulkovo Observatory for 1959.0 - 1961.5. A TSM tabulator was used for calculating mean positions (with allowance for annual variations of refraction and curvature of parallels). The third-degree polynomial for conversion of mean coordinates to a new equinox was transformed into a recurrent formula by means of which δ_0 are computed by the cyclical procedure for many years to come. Using an analogous procedure also reduction magnitudes (small letters) for all pairs were calculated for many years

Card 1/2

BATURINA, G. D.; NAUMOVA, A. A.; POLOZHENTSEV, D. D.

Some results of investigating the precision of the determination
of declinations with the Toepfer meridian circle. Izv.GAO 22
no.3:147-152 '61. (MIRA 14:11)
(Transit circle--Testing)

L 15244-65 FSF(h)/FSS-2/EWT(1)/EWG(v)/EWA(d)/EEC-4/EEC(t)/I/EED(b)-3 pn-4/po-4/
Pe-5/Pq-4/Pac-4/Pae-2 IJP(c)/AFETR GW
ACCESSION NR: AR4049316 S/0269/64/000/008/0020/0020

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vy*p., Abs. 8.51.151

AUTHOR: Polozhentsev, D. D.; Potter, Kh. I.; Streletskiy, Yu. S.

TITLE: Plan for an instrument for photographic observations of the sun for
astrometric purposes

CITED SOURCE: Tr. 15-y Astrometr. konferentsii SSSR, 1960. M.-L., AN SSSR, 1963,
127-131

TOPIC TAGS: astrometry, astronomical instrument, solar observation, reference
star, mirror astrolabe, meridian instrument

TRANSLATION: The authors note the timeliness of astrometric observations of the
sun for investigation of space. The complexity of the use of the photographic
method as a result of the exceptionally high surface brightness of the sun is
mentioned, as well as the fact that simultaneous photography of reference stars is
impossible. The article is accompanied by a diagram of the instrument, a brief
description and the principle of operation. The instrument consists of a horizon-
tal telescope, a high-speed shutter, a movable mirror and a mercury horizon. The

Card 1/2

BATURINA, G.D.; VARINA, V.A.; GNEVYSHEVA, K.G.; NAUMOVA, A.A.; POLOZHEVTSEV, D.D.

Method for the processing of differential observations of declinations
by means of punched card machines. Izv. GAO 23 no.4:27-31 '64.
(MIRA 17:9)

L 40816-65 EWT(1)/EWG(v)/EEC-1/EEC(t) PL-4/Pe-5/Pq-4/Pac-4/Pae-2 GS/GW
 UR/0000/63/000/000/0113/0116
 ACCESSION NR: AT5009180

AUTHOR: Polozhentsev, D.D.; Strugatskiy, B.N.

TITLE: Computation of ephemerides of the sun and planets of the earth group on computers for analysis of meridian observations

SOURCE: Astrometricheskaya konferentsiya SSSR. 15th, Pulkovo, 1960. Trudy. Moscow, Izd-vo AN SSSR, 1963, 113-116

TOPIC TAGS: ephemeris, sun, planet, meridian observation, Mercury, Mars, Venus

ABSTRACT: The Vychislitel'naya laboratoriya (Computation Laboratory) of the GAO AN SSSR was assigned the responsibility for preparing ephemerides of the sun and planets for each day in 1961-1965 for facilitating the analysis of meridian observations of these bodies. This paper briefly describes the preparation of these ephemerides. The authors note that the effective use of such ephemerides would be 3-8% for Mercury and Mars, 12-18% for Venus and 30-32% for the sun. Ephemerides for the sun were prepared by computing α and δ for the times of upper culmination at a particular observatory (with an accuracy to $0^s.01$ for α and $0''.1$ for δ), the correction for parallax, the time of passage of the

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ACCESSION NR: AT5009180

half-diameter of the sun across the meridian, and the approximate zenith distance. For Venus and Mars the procedure involved computation of α and δ for the times of upper culmination at the particular observatory and the interpolation factor. For Mercury the computations included approximate α and δ for the times of the upper culmination at a particular observatory, the interpolation factor and the fourth and fifth differences of coordinates. The initial data used were the geocentric ephemerides of the sun, Mercury, Venus and Mars for 0000 hours ephemeris time for each day of 1961-1965 prepared by the Institut teoreticheskoy astronomii AN SSSR (Institute of Theoretical Astronomy, AN SSSR). The sequence for computation of solar ephemerides consists of four steps: a) Computation of the interpolation factor for interpolation of α_0 , δ_0 and the radius vector for the time of the upper culmination at the meridian of a particular observatory; b) Computation of α_0 , δ_0 and the radius vector R_0 for the times of the upper culmination; c) Computation of zenith distances and parallax corrections; d) Computation of the angular half-diameter of the sun and the time of passage of the sun across the meridian. "In conclusion, the authors express sincere appreciation to N.M. Terent'yev, senior scientific worker at the Vychislitel'nyy tsentr LOMI AN SSSR (Computation Center, LOMI AN SSSR), K.N. Tavastsherna, senior scientific worker at the Glavnaya astronomicheskaya observatoriya AN SSSR (Main Astronomical Observatory AN SSSR), laboratory worker

Cord 2/3

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ACCESSION NR: AT5009180

2
Z. T. Fatnikova and master mechanic V. A. Kuz'min for participation in the work of preparing the new ephemerides". Orig. art. has: 9 formulas and 2 tables

ASSOCIATION: None

SUBMITTED: 6Apr63

NO REF SOV: 001

ENCL: 00

SUB CODE: AA

OTHER: 001

Card

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3/3

BATURINA, G.D.; BEDIN, V.S.; VARINA, V.A.; GNEVYSHEVA, K.G.; ZVEREV, M.S.;
IZVEKOVA, A.A.; MURRI, S.A.; NAUMOVA, A.A.; POLOZHEVSEV, D.D.

Observations of AGK3R stars with the Toepfer meridian circle at
Pulkovo. Izv. GAO 23 no.4:3-15 '64. (MIRA 17:9)

VESELOVSKIY, N.V.; ALEKSEYEV, A.P.; GONCHAROVA, V.D.; PUTINTSEVA, V.S.;
POLOZHENTSEV, I.F.

Isotopic composition of sulfur in sulfate ions of some continental
surface waters. *Gidrokhim. mat.* 38:62-76 '64. (MIRA 18:4)

1. *Gidrokhimicheskiy institut AN SSSR. Novocherkassk.*

1. POLCZHENTSEV, I. P., POLOZHENTSEV, F. A.
2. USSR (600)
7. "Concerning Diagnosis of the Condition of Oak Trees While They Are Still Alive By Means of the 'Infusorial Test'", Priroda, No 4, 1951, pp 65-66.
9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

POLOZHENTSEV, I.P.; ZIGANGIROV, A.M.

Pine forests of the Southern Urals. Priroda 49 no.7:
74-76 J1 '60. (MIRA 13:7)

1. Bashkirskaia lesnaya opytная stantsiya Vsesoyuznogo
nauchno-issledovatel'skogo instituta lesovodstva i mekhanizatsii
lesnogo khozyaystva, Ufa.
(Ural Mountains--Pine)

POLOZHENISTEV, I. P.

"Diagnosis of Physical Condition of Oak Tree by Means of a Test on Infusoria
(Experiments with Leaf and Bark Phytoncides)," Priroda, vol. 40, no. 4, 1951.
pp. 65-66. 410 P933

SO: SIRA SI 90-53, 15 Dec. 1953

POLOZHENTSEV, I. P.

USSR/Biology - Antibiotics

Apr 51

"Diagnosis of the Condition and Health of Living Oaks by Means of the Infusoria Test," Prof P. A. Polozhentsev, I. P. Polozhentsev

"Priroda" No 4, pp 65, 66

Phytoncides contained in plant juices obtained from living oaks kill *Paramecia caudatum*. Juice from old trees is more effective in killing *paramecia* than that from young trees, and that from diseased trees more effective than that from healthy trees. Injuries result in an increased phytoncidal activity of the juice near the site of the injury.

221T10

POLOZHENTSEVA, N.I., kand.sel'skokhoz.nauk; VELIBEKOV, M.D., aspirant

Two pests of forage beans *Apion ervi* and *Meligethes erythropus*.
Zashch. rast. ot vred. i bol. 9 no.1:34-35 '64. (MIRA 17:4)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

POLOZHENTSEV, P. A.

Polozhentsev, P. "On the linden forests of Bashkir," Okhrana prirody, 1948,
No. 4, p. 17-23

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

POLOZHENTSEV, P. A., Prof.

USSR/Biology - Antibiotics

Apr 51

"Diagnosis of the Condition and Health of Living Oaks by Means of the Infusoria Test," Prof P. A. Polozhentsev, I. P. Polozhentsev

"Priroda" No 4, pp 65, 66

Phytoncides contained in plant juices obtained from living oaks kill *Paramecia caudatum*. Juice from old trees is more effective in killing *paramecia* than that from young trees, and that from diseased trees more effective than that from healthy trees. Injuries result in an increased phytoncidal activity of the juice near the site of the injury.

221T10

1. POLOZHENTSEV, P. A. Prof.: KOROVINA, N. I.

2. USSR (609)

4. Elm - Diseases and Pests

7. Yellowish moth (*Colymnia trapezina*) is destructive to seeds of the elm family.
Les i step' 4 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

POLOZHENTSEV, P.A.

POLOZHENTSEV, P.A.; KUCHEROV, Ye.V.

Observations of the long-horned beetle (*Mesosa myops* Dalm.) and the pseudo snout beetle (*Tropideres albirostris* Hbst.) in deciduous forests of Bashkiria. Ent.oboz. 32:176-182 '52. (MLRA 7:1)

1. Voronezhskiy lesokhozyaystvennyy institut.
(Bashkiria--Beetles) (Beetles--Bashkiria)

POLOZHENITSEV, P. A.

Vrednye i poleznye zivotnye polezashchitnykh polos [Injurious and beneficial
animals of the shelterbelt strip]. Moskva, Gosleskhozizdat, 1953. 112 p.

SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1953

POLOZHEVSEV, P.A.

Mermithidae (Enoplida: Dorylaimata) of the U.S.S.R. Zool. zhur.
34 no.4:770-774 J1-Ag '55. (MIRA 8:9)

1. Kafedra entomologii i zoologii Voronezhskogo lesokhozyaystven-
nogo instituta
(Nematoda)

USSR/General and Special Zoology. Insects

P

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25785

Author : Polozhentsay P.A.

Inst : Voronezh Forest Institute.

Title : On the Devouring by Insects of the Larvae and Shoots growing on Cut Down Trees. (O poyedanii nesokonymi list'yov i pobegov, vyrastayushchikh na srublennykh dorov'yakh.)

Orig Pub : Nauchn. zap. Voronezhsk. lesotokhn. in-ta, 1956, 15, 185-188

Abstract : Larvae and shoots on barked stems, uprooted stumps, posts without roots, cut off parts of trees, logs, firewood, hedges (willow) were studied in a few localities of Voronezh and Beloshov oblasts and the Krasnodar region. Forty seven insect species and one species of ticks were found on 11 arboreal and one bush variety; more species were noted on the oak tree, (10), black poplar (8), willow (6), and alder trees (5); less species were noted on the elm, aspen tree and sharp-leaved maple. Some insects might have been on the trees before the trees

Cord : 1/2

USSR/General and Special Zoology. Insects

F

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25786

Author : Polozhentsev P.A., Zdraykovskiy D.I.

Inst : Voronezh Technico-Forest Institute.

Title : On Chemical Control of Secondary Pests in Centers of Infection by the Root Fungus. (O khimicheskoi bor'be s vtorichnymi vreditelyami v ocherkh kornevoi gubki).

Orig Pub : Nauchn. zap. Voronezhsk. lisotekhn. in-tr, 1956, 15, 189-194

Abstract : The death of trees in the center of infection by the root fungus (about 500 hectares) in Braghin forestry of the Khronov wood began in 1947. About 20% of the trees were dead by 1954. The trees were perishing not only as a result of the infection of the root systems by the mushroom. The root fungus enfeebled the trees and made them more accessible for the secondary pests, especially for the black pine long-horned beetle, the blue pine brown tail moth, the bark bug and to a lesser extent for the bark beetle, curculionidae and

Card : 1/2

POLOZHENTSEV, P.A.; ARTYUKHOVSKIY, A.K.

New international journal "Nematologica". Reviewed by P.A.Polozhentsev,
A.K.Artiukhevskii. Zool.zhmr.35 no.7:1111-1112 J1 '56. (MLRA 9:9)
(Nematoda--Periodicals)

POLOZHENTSEV, P.A., professor.

Worms as parasites of insects. Priroda 45 no.12:102-104 D '56.
(MLRA 10:2)

1. Voronezhskiy lesokhozyaystvennyy institut.
(Worms, Intestinal and parasitic)
(Insects--Diseases and pests)

Polozhentsev, P. A.

USSR/Zooparasitology - Parasitic Worms.

G-2

Abs Jour : Ref Zhur - Biol., No 6, 1958, 24331

Author : Polozhentsev, P.A.

Inst : -

Title : Study of Helminths Parasitic on Insects of the USSR.

Orig Pub : Byul. Mosk. o-va ispyt. prirody. Otd. biol., 1957, 62,
No 1, 19-36

Abstract : A list of nematodes and hair worms parasitic on insects
of the USSR, and the host species.

Card 1/1

COUNTRY	:	USSR
CATEGORY	:	Forestry. Forest Cultures K
ABS. JOUR.	:	RZhBiol., No. 2, 1959, No. 6187
AUTHOR	:	Polozhentsev, P.A.; Zdraykovskiy, D.I.
INST.	:	
TITLE	:	Characteristics of Pine Wood Contaminated with Flat-Bugs (Aradidae).
ORIG. PUB.	:	Izv. vyssh. uchebn. zavedeniy. Lesn. zh., 1958, No.3, 17-24
ABSTRACT	:	Observations were conducted in 1953 - 1955 on pine cultures 17 - 27 years old growing on sandy loam soils of Braginskoye forest, of Khrenovskiy pine forest, and Oktyabr'skiy Annenskiy Leskhoz in order to demonstrate the condition of woods injured to different extents by flat bugs at sites of the root fungus. There were determined the secretions of soft resin, its density and refraction coefficient, the extent of invasion
CARD:	:	1/2

L 36934-66

ACC NR: AP6005042

(A)

SOURCE CODE: UR/0354/65/000/011/0056/0057

AUTHOR: Polozhentsev, P. A.

ORG: none

TITLE: Evaluation of the condition of a tree by the biopsy method

SOURCE: Lesnoye khozyaystvo, no. 11, 1965, 56-57

TOPIC TAGS: plant injury, plant growth

ABSTRACT: Specimens were cut from damaged and diseased trees and later replaced. Galvanometric measurements were also carried out on a device constructed by the author and M. G. Khanislamov, consisting of Cu and Zn electrodes mounted into a handle connected to galvanometric leads. Examination of 100 trees established the advantage of the biopsy method and uniformity of results, compared to variations in other methods. Cuts were about 0.5, 1 and 2 cm in diameter. In the early summer of 1963, biopsies were made on spruce infected with timber beetle (dendroctonus) and grafted back in place in 1964. The graft was successful and the inserted piece was able to provide protection to the wound from air, light, and moisture, and was soon covered with resin. Bark specimens (stem, roots, branches) differed in pre-cambial color and amount of moisture. The state of health could be determined by color which ranged from light, in healthy trees, to dark in sick trees. The dead trees revealed dark-brown, or brown-red sur-

Card 1/2

UDC: 632.26 : 632.4

POLOZHENTSEV, P.A., prof.

Worm parasites of insects. Zashch. rast. ot vred. i bol. 6 no.12:
34-36 D '61. (MIRA 16:5)

1. Voronezhskiy lesotekhnicheskii institut, kafedra zashchity lesa.

POLOZHENYSEV, P.A.; ARTYUKHOVSKIY, A.E.

Methods of studying mermithids (Mermithidae, Nematodes).
Sbor. rab. po nemat. sel'khoz.rast. no. 5:70-90 '63.
(MIRA 17:5)

1. Kafedra entomologii Voronezhskogo gosotekhnicheskogo
instituta, Voronezh.

POLOZHENTSEV, P.A.; PLOKHIKH, V.S.

Ecologic characteristics of the clear-winged moth *Aegeria apiformis*
Cl. Vop. ekol. 7:142-143 '62. (MIRA 16:5)

1. Lesotekhnicheskiy institut, Voronezh.
(Ural Valley--Clearwing moths)
(Ural Valley--Poplar--Diseases and pests)

RUBTSOV, V.I., kand. sel'khoz. nauk, otv. red.; NAUMENKO, I.M.,
prof., doktor sel'khoz. nauk, red.; KAPPER, O.G., prof., red.;
KHUKHRYANSKIY, P.N., prof., doktor tekhn. nauk, red.;
RASKATOV, P.B., dots., kand. biol. nauk, red.; POLOZHENTSEV
P.A. prof., doktor sel'khoz. nauk, red.; VOROTNIKOVA, R.V.,
red.; SERADZSKAYA, P.G., tekhn. red.

[Collection of student scientific papers] Sbornik studenche-
skikh nauchnykh rabot. Pod red. V.I. Rubtsova i dr. Voronezh,
Voronezhskoe knizhnoe izd-vo, 1959. 68 p. (MIRA 16:8)

1. Voronezh. Lesotekhnicheskii institut. 2. Direktor Voronezh-
skogo lesotekhnicheskogo instituta (for Rubtsov).
(Forestry research)

POLOZHENTSEV, P. A. (Voronezh); POLOZHENTSEVA, N. I. (Voronezh)

Unusual orchard pests. Zashch. rast. ot vred. i bol. 5 no.10:52
0 '60. (MIRA 16:1) ~

(Fruit—Diseases and pests) (Weevils)

GUSEV, Valentin Ivanovich, prof., lesnoy entomolog; RIMSKIY-KORSAKOV, Mikhail Nikolayevich, prof., lesnoy entomolog [1873-1951]; YATSENTKOVSKIY, Aleksey Vladimirovich; SHIPEROVICH, Vladimir Yakovlevich, lesnoy entomolog; POLUBOYARINOV, Ivan Ivanovich, lesnoy entomolog; IL'INSKIY, A.I., dots., retsenzent; POLOZHENTSEV, P.A., prof., retsenzent; KHRAMTSOV, N.N., red.; ARNOL'DOVA, K.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Forest entomology] Lesnaya entomologiya. Izd. 4., perer. pod obshchim rukovodstvom i red. V.I. Guseva. Moskva, Goslesbumizdat, 1961. 486 p.
(MIRA 14:7)

1. Zaveduyushchiy kafedroy entomologii Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Gusev)
(Forest insects)

POLOZHENTSEV, S.D.

Electrophoretic study on proteins and lipoproteins in the blood serum
in dysentery. Sov. med. 25 no.8:71-76 Ag '61. (MIRA 15:1)

1. Iz kafedry gosital'noy terapii No.2 (nachal'nik - prof.
Z.M.Volynskiy) Voenno-meditsinskoy ordena Lenina akademii
imeni S.M.Kirova
(DYSENTERY) (BLOOD PROTEINS) (ELECTROPHORESIS)

GRYAZNOV, V.P.; KHOROSHKOVA, M.P.; POLOZHENTSEVA, N.G.; RZHECHITSKA, G.V.

Chromatographic and spectrophotometric analysis of impurities in
alcohol. Izv.vys.ucheb.zav.; pishch.tekh. no.5:157-164 59.
(MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy i likero-
vodochnoy promyshlennosti.
(Alcohols)

PHASE I BOOK EXPLOITATION

SOV/6464

Ayzinov, Mark Moiseyevich, Aleksandr Mustafovich Bayrashevskiy, and Vasilii Alekseyevich Polozhintsev

Radiotekhnika i radionavigatsionnyye pribory (Radio Engineering and Radio Aids to Navigation) Leningrad, "Morskoy transport", 1962. 474 p. Errata slip inserted. 9700 copies printed.

Ed.: K. F. Ditrikh; Ed. of Publishing House: Yu. V. Goryanskiy; Tech. Ed.: O. I. Kotlyakova.

PURPOSE: This book has been approved by the Ministry of the Merchant Marine (Department of Schools) as a textbook for navigation divisions in marine engineering schools of higher education, and may be useful as a handbook for navigators of the merchant marine.

COVERAGE: The book deals with the physical foundations of radio engineering and electronics. The design and operating principles of radio aids to

Card 1/10
2-

GUREVICH, A.M.; POLOZHENSKAYA, L.P.

Interaction between the solid phase of $\text{UO}_4 \cdot \text{H}_2\text{O}$ and sodium and
potassium hydroxide solutions. Zhur.neorg.khim. 5 no.1:
175-179 Ja '60. (MIRA 13:5)
(Sodium hydroxide) (Potassium hydroxide)
(Uranium oxide)

POLOZOVA, N. G., Cand Phys-Math Sci — (diss) "The use of electronic computers for constructing analytic theories for the movement of planets," Leningrad, 1960, 9 pp (Main Astronomical Observatory, AS USSR) (KL, 36-60, 113)

Pol'skiy, N. I.

PHASE I BOOK EXPLOITATION

80V/4219

Dorfman, Abram Shlemovich, Mikhail Mikhaylovich Nazarchuk, Naftul Iosifovich
Pol'skiy and Mikhail Il'ich Saykovskiy

Aerodinamika diffuzorov i vykhlopnykh patrubkov turbomashin (Aerodynamics of Diffusers and Exhaust Outlets of Turbines) Kiyev, Izd-vo AN UkrSSR, 1960.
188 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut teploenergetiki.

Ed. of Publishing House: I. V. Kisina; Tech. Ed.: N. P. Rakhlina.

PURPOSE: This book is intended for scientists and engineers working in the field of applied gas dynamics. It will also be of interest to turbine designers.

COVERAGE: The book presents methods for calculating gas flows in straight-sided and curved-contour diffusers and develops methods for designing turbine exhaust nozzles. Methods of experimental investigation of nozzles are considered as well as the effect of nozzle losses on the efficiency of the turbines. The book outlines the basic results of a study of the flows of viscous incompressible fluids

Card 1/6-

PGLOZHENISEV, S.D.; TYURIN, Ya.N.

Myocardial changes developing in connection with hyperadrenalemia in pheochromocytoma. kardiologiya 4 no.3:81-83 N-D '64. (MIRA 18:8)

1. Kafedra Voenno-morskoy i gosital'noy terapii (nachal'nik - prof. Z.M.Volynskiy) Voenno-meditsinskoy ordona Lenina akademii imeni S.M.Kirova, Leningrad.

KRYLOV, A.A., kand.med.nauk; BOGOYAVLENSKIY, I.F.; USHAKOV, B.N.;
POLOZHENSTSEV, S.D.

Pathogenic and clinical significance of quantitative and qualitative
changes of proteins in the blood serum in peptic ulcer. Terap.arkh.
31 no.12:16-21 D '59. (MIRA 13:4)

1. Iz kafedry fakul'tetskoy terapii No.2 (nachal'nik - prof. I.T.
Teplov [deceased]) Voenno-meditsinskoy ordena Lenina akademii imeni
S.M. Kirova.

(PEPTIC ULCER blood)
(BLOOD PROTEINS)

POLOZHENTSEV, D.D.

Using V.G.Shaposhnikov's method in deriving a fundamental
system of declinations. Izv.GAO 20 no.4:41-71 '57.

(MIRA 13:4)

(Stars--Catalogs) (Astrometry)

ZVEREV, M.S.; POLOZHEVSEV, D.D.

Preliminary general catalog of fundamental faint stars with
declinations from $+ 90^{\circ}$ to $- 20^{\circ}$ (PFKSZ). Trudy Glav. astron.
obs. Ser. 2 72:5-76 '58. (MIRA 13:3)
(Stars--Catalogs)

ПОЛИТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ, М.В.С.; ОНУ.АННУ, М.В.С.

Difference in the composition of molasses alcohol and that made
from grain and potatoes. Form. i spirt.prom. 31 no.5-9-12 '65.
(MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i
spirtovoy promyshlennosti.

PAKHALOV, A.P.; POLOZHENTSEVA, N.G.

Production of rectified alcohol from sugar beets. Trudy TSNIISP
no.12:25-31 '62. (MIRA 17:3)

SOV/35-59-8-6471

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,
Nr 8, p 54

AUTHORS: Polozhentseva, T.A., Bronnikova, N.M.

TITLE: Photographic Photometry of the Penumbra of ¹²Lunar Eclipses on
May 13 and November 7, 1957

PERIODICAL: Astron. tsirkulyar, 1958, August 26, Nr 194, pp 10 - 11 ✓

ABSTRACT: The results of photographic observations of the lunar eclipses
on May 13 and November 7, 1957, are presented. The first eclipse
was observed in Anapa with an AZT-7 telescope, and the second in
Pulkovo with a telescope of the same type. A tubular photometer
and a standard sensitometer respectively were used for the cali-
bration of plates. The results of observations are tabulated in
the form of penumbra density expressed in terms of stellar
magnitudes.

N.B.P.

Card 1/1

POLOZHENETS W. I. Z.; ARTYUKHOVSKIY, A. M.

Synonymics of the family Paratithidae Braun, 1883 (Dorvilleidae, nematode). Zool. zhur. 38 no. 6: 816-828 Jo '59. (HIR: 12:11)

1. Voronezh Silvicultural Institute.
(Nematoda)

POLOZHENTSEV, S.D.

Study of blood proteins by electrophoresis in relation to resection
of the stomach and blood transfusion. Vest. khir. 84 no.5:60-63
My '60.

(BLOOD PROTEINS)

(MIRA 13:12)
(STOMACH SURGERY)

(BLOOD TRANSFUSION)

USHAKOV, B.N.; POLOZHENTSEV, S.D.

Determination of lipoproteids by means of paper electrophoresis
in serum previously stained with sudan black. Lab.delo 7 no.7:
12-15 JI '61. (MIRA 14:6)

1. Kafedra fakul'tetskoy terapii No.2 (nachal'nik - prof. A.L.
Landä) Voenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(PAPER ELECTROPHORESIS) (LIPOPROTEINS)

116

ca

Ascorbic acid content of blood and urine in measles and the therapeutic value of hipberry extract in the treatment of pneumonia of measles. S. L. Shapiro, S. P. Polozhentzova and P. V. Masina. *Pediatrics* 1960, No. 10, 20-25.

Hospitalized measles patients show, from the onset of the disease until late convalescence, a well-defined deficit of vitamin C. For re-introduction of large doses of hipberry ext. greatly diminishes this deficit and raises the blood level of vitamin C. The level in the urine generally parallels that in the blood, especially in the more robust children. In most serious cases the treatment may require up to 20 days of daily administration. Thus administered vitamin C has no effect on any of the symptoms of measles pneumonia, nor does it prevent any of the complications. However, it improves the action of other active methods of treatment of the disease, as shown by better convalescence rate.

G. M. Kowlapoff

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

COUNTRY	: USSR
CATEGORY	: Plant Diseases. Diseases of Forest Plants
REF. SOUR.	: RZhMol., No. 21 1958, No. 1959
AUTHOR	: Polomentsev, P.A., Kehrutskiy, S.P.
INSTIT.	: Academy of Sciences, Georgian SSR
TITLE	: A Characterization of Sick and Healthy Trees of the Edible Chestnut
ORIG. PUB.	: Vestn. Tbilisk. botan. otdel. AN GruzSSR, 1957, No. 64, 1-8-64
ABSTRACT	: Cancer of the edible chestnut in the forests of the Georgian SSR is caused by the fungus <i>Endothia parasitica</i> . Studies were made of sick and healthy trees, of the pathophysiological condition of the sick trees, and of the disease process. Healthy and sick trees showed a number of indices characterizing their physiological differences. In a sick tree the amount of sap in the pith is diminished in proportion to the severity of the pathological condition; the intensity of discoloration of the sap with senescence of the tree increases; the sap from sick trees is less toxic than
CARD:	: 1/2

GINZBURG-SHIK, Lev Davidovich; IPATOV, P.P., inzh., retsenzent;
POLOZHINTSEV, V.R., inzh., red.; TSOPIN, K.G., inzh., red.
izd-va; STROGANOV, L.P., inzh., red. izd-va; MODER, B.I.,
tekhn. red.

[Installation of boiler systems; brief reference book] Montazh
kotloagregatov; kratkoe spravocnoe posobie. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1960. 231 p.

(MIRA 13:11)

(Boilers)

MELIK-SHAKHNAZAROV, Aram Sergeyevich; POLOZHINTSEV, V.R., retsenzent;
TAUKHMAN, L.A., red.; ANTIPOV, V.P., red.izd-va; GORDEYEVA,
L.P., tekhn.red.

[Scientific technical information and promotion in the machinery
industry] Nauchno-tekhnicheskaya informatsiya i propaganda v
mashinostroenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 127 p. (MIRA 13:8)
(Machinery industry--Information services)

KUDRYASHOV, Aleksandr Alekseyevich, dotsent, kand.tekhn.nauk;
POLOZHINTSEV, V.R., inzh., retsenzent; ACHERKAN, N.S.,
prof., doktor tekhn.nauk, red.; IVANOVA, N.A., red.izd-va;
EL'KIND, V.D., tekhn.red.; UVAROVA, A.F., tekhn.red.

[Machine tools for cutting-tool production] Metalloreshushchie
stanki dlia instrumental'nogo proizvodstva. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 318 p.
(MIRA 14:4)

(Machine tools)

(Metal-cutting tools)

POLOZHINTSEV, V.R., inzh.

Encourage inventors and efficiency promoters in industry.
Mashinostroitel' no.1:13-14 N'56. (MIRA 12:1)
(Inventions) (Efficiency, Industrial)

L 45262-65 EWT(a) IJP(c)
ACCESSION NR: AP5011196

UR/0041/65/017/002/0061/0087

AUTHOR: Polozhiy, G. N. (Kiev)

TITLE: Limit values and formulas of rotation along cuts of the basic integral representation of p analytic functions with characteristic $p = x^k$. 2.

SOURCE: Ukrainskiy matematicheskiy zhurnal, v. 17, no. 2, 1965, 61-67

TOPIC TAGS: boundary value problem, complex variable

ABSTRACT: The author applies formulas given in the previous part of this work to the solution of boundary value problems of p -analytic functions with characteristic $p = x^k$. He obtains heretofore unknown solutions in quadratures of corresponding boundary value problems in the theory of axisymmetric potential. Orig. art. has: 205 formulas.

ASSOCIATION: none

SUBMITTED: 23Dec63

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 001

Card 1/1

POLOZHENTSEV, V. S.

1964

Steels -
welding

DECEASED
c. '63

POLOZHENTSEV, P. A. (Voronezh); POLOZHENTSEVA, N. I. (Voronezh)

Unusual orchard pests. Zashch. rast. ot vred. i bol. 5 no.10:52
0 '60. (MIRA 16:1) ~

(Fruit—Diseases and pests) (Weevils)

POLOZHENTSEVA, T.A.; SHCHEGOLEV, D.Ye.

Photographic photometry of the penumbra of the lunar eclipse of
November 29, 1955. Astron. tsir. no.177:10 P '57. (MLBA 10:6)
(Eclipses, Lunar--1955)

PAVOZHENKOVA, T.A.

Visual determination of the absolute brightness of the solar
corona of February 25, 1952. Uch. zap. LGU no. 190:113-119 1952
(MIRA 10:7)

(Sun--Corona)

POLOZHENTSEVA, T.A.; BRONNIKOVA, N.M.

Photographic photometry of the penumbra of lunar eclipses of May
13 and November 7, 1957. Astron. tsir. no.194:10-11 Ag '58.
(MIRA 12:12)

(Eclipses, Lunar--1957)

S/035/61/000/012/026/003
A001/A101

AUTHOR: Polozhentseva, T.A.

TITLE: Relative spectrophotometry of lunar formations

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 12, 1961, 72, abstract 12A590 ("Izv. Gl. astron. observ. v Pulkove", 1960, v. 21, no. 4, 180 - 184, Engl. summary)

TEXT: Spectra of 12 lunar formations were taken at Anapa in 1957 by means of an A3T-7 (AZT-7) telescope (equivalent focus length is 8.5 m) with an ACP-9 (ASP-9) prism spectrograph (dispersion is 215 Å/mm at λ 4861) on Ilford Hyper-sensitive panchromatic HP-3 plates; the purpose of the study was investigation of the problem of color contrast degree on the Moon. Spectrograms were measured on a Moll microphotometer. The spectrum of Sinus Iridium was used as a comparison object. The results are presented graphically as a curve of $\lg I_{\text{obj}}/I_{\text{S.I.}}$ relation (logarithm of the ratio of brightness of an object to brightness of Sinus Iridium) to λ within the range 400-650 m μ . The data of this study were compared with those of N.P. Barabashev and A.G. Chekirda and those of V.I. Yezerskiy and

Card 1/2

Relative spectrophotometry of lunar formations

S/035/61/000/012/026/043
A001/A101

N.A. Kozyrev; agreement was satisfactory. From the analysis of the results obtained, the author concludes that color contrasts on the Moon do not exceed 10.15%, the color of individual objects does not change with the phase, and continents are somewhat redder than Maria. There are 6 references.

I. Lebedeva

[Abstracter's note: Complete translation]

Card 2/2

S/751/61/000/008/004/005

AUTHOR: Polozhentseva, T. A.

TITLE: On the state of the Alphonse Crater prior to the start of the eruption of 3 November 1958

SOURCE: Akademiya nauk SSSR. Komissiya po fizike planet. Izvestiya. no. 3. Kharkov, 1961. 46 - 49

TEXT: The processing of a spectrogram of the Alphonse Crater, obtained with the 50" reflector of the Crimean observatory at 4:00 AM on 2/3 November 1958, has shown that in all probability there was neither dust cloud nor gas cloud over the crater prior to the eruption. It has previously been established by N. A. Kozyrev (who took the spectrogram) that gas escaped from the central peak of the crater between 6:00 and 6:30 AM (Priroda, 1959, no. 3, pp. 84-87). To check on the accuracy of the results, the spectrogram was analyzed with microphotometers of two different systems. The study consisted essentially of finding the correlation between the ratio of the intensities in the spectra inside and outside the crater, and the the wavelength. The absorption due to dust would have to be proportional to the reciprocal of the wavelength, and that due to gas to the recip-

Card 1/2

On the state of the Alphonse Crater...

S/751/61/000/008/004/005

rocal of the fourth power of the wavelength. The correlation coefficients were found to be 0.30 and 0.04, respectively. It is concluded that the difference in the energy distributions is due possibly to the different reflectivities of the two regions. Gratitude is expressed to Doctors of Physico-mathematical Science Professors A. V. Markov and N. A. Kozyrev for valuable advice. A brief postscript by Prof. Kozyrev points out that the present conclusions are correct and that his own hypothesis that volcanic dust was present above the crater was in error. There are 4 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya AN SSSR (Main Astronomical Observatory, Academy of Sciences SSSR)

Card 2/2

POLOZHENTSEVA, T.A.

Preliminary data on the spectra of Venus in 5200-3800 $\text{\AA}$ wave length.
Astron.tsir. no.232:4-6 D '62. (MIRA 16.4)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.
(Venus (Planet)—Spectra)

L 29104-65 EWT(1)/EWG(T)/EEC(t) Pe-5/Pae-2 GW

ACCESSION NR: AT5003866

S/2797/64/023/005/0075/0079

AUTHOR: Polozhentseva, T. A.

TITLE: Violet absorption in the atmosphere of Venus ¹²

SOURCE: Pulkovo. Glavnaya astronomicheskaya observatoriya. Izvestiya, v. 23, no. 5, 1964, 75-79

TOPIC TAGS: light absorption, Venus planet, photometry, spectrography/ ASP 11 spectrograph, Kodak 103 a0 photographic plate, Agfa spectral rot rapid photographic plate, Agfa spectral blau rapid photographic plate

ABSTRACT: This work is based on spectral observations of Venus made in August 1961 and May-June 1962 on the 50-inch reflecting telescope of the Crimean Astrophysical Observatory. The 1961 spectra were studied with both quartz and diffraction spectrographs. The diffraction spectrograph was an ASP-11 model. Kodak 103 a0 plates were used in 1961; Agfa spectral rot rapid and spectral blau rapid were used in 1962. No noticeable change in contrast was noted, and a single generalized curve of characteristics was used without regard to the part of spectrum examined. Three spectra were obtained: north polar, equatorial, and south polar. Comparisons were made on a self-recording microphotometer. Results show a decline in

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intensity of violet light in the spectrum of Venus as compared with solar spectra. This decline varies with time. On 25 August and 3 May 1962 absorption was very small, but on 3 June 1962 it was appreciable. This absorption is observed between 4500 and 3800 Å, increasing toward the shorter wavelengths. At still shorter wavelengths the absorption is constant. Change in intensity may be due to: 1) absorption of violet radiation of the sun by the atmosphere of Venus, 2) errors in treatment, 3) changes in transparency of the earth's atmosphere. The author thinks the last may be the proper explanation since dark spots may be observed visually when using violet filters. "In conclusion, I express thanks to A. V. Markov for his guidance in the work, to N. A. Kozyrev for valuable advice and consultation, and to the directors of the Crimean Astrophysical Observatory AN SSSR for use of their 50-inch telescope in making the observations." Orig. art. has: 7 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya (Main Astronomical Observatory)

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